

Fig 1

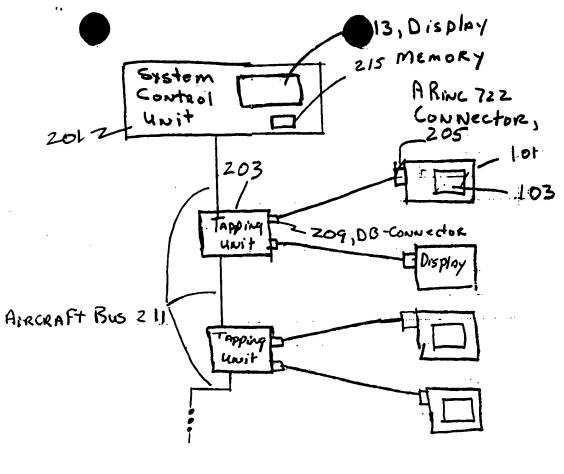


Fig ZA

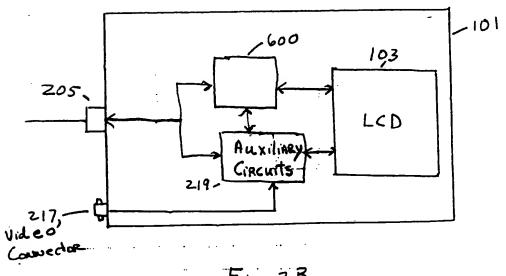
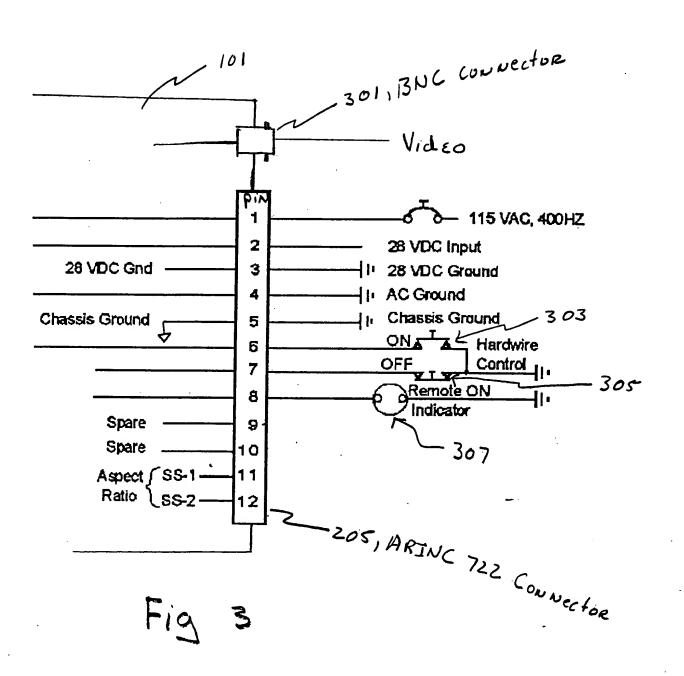


Fig 2B

on the control of the state of



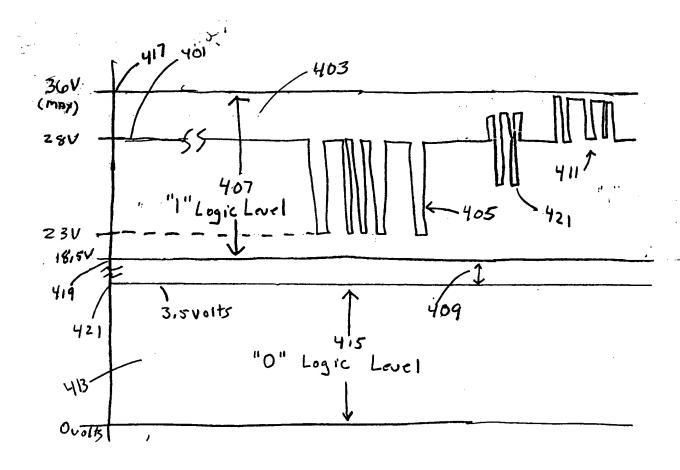
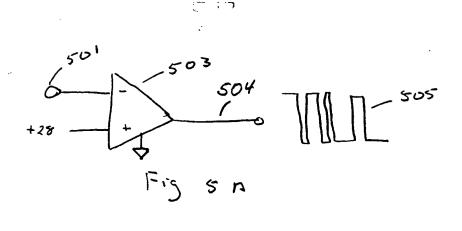


Fig 4



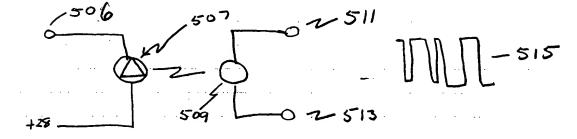


Fig 5 B

Type of Information	Nominal Data Size	Format
Type of unit (677)	4 BCD characters	Last 2 digits of base number, plus last 2 digits of dash number.
Serial Number (679)	4 BCD characters	Last 4 digits of unit serial number as given on the bar code label.
BIT Discretes (623,625,627)	24 BITS +	Individual discretes formatted into 3 eight-bit words.
Operating Time (683)	6 BCD characters	Represents up to 99,999.9 hours.
Operating Cycles (685)	5 BCD characters	Represents up to 99,999 cycles. A cycle is 1 deploy stow cycle.
Hardware version (681)	2 BCD characters	Represents up to 99 versions.
MOD (681)	2 BCD characters	Represents up to 99 Modifications.
Software version (681)	2 BCD characters	Represents up to 99 versions.
Cage Code (679)	5 BCD characters	Commercial and government entity code.

Fig. 6

Bit Discrete	Туре	Function	
Flash alert	Type 2		
Trasii aleit	1 ype 2	The motor controller board has detected a prior occurrence of a failure and has logged the event in flash memory. This is meant to alert maintenance personnel that a fault has occurred even	
		though the unit appears to be operating normally. The BIT data stream is sent with this discrete	
		bit reset to show there has been a prior fault condition. This is meant to be used to indicate that	
		the unit is operating but probably needs service.	
AC good fail	Type 2	The power supply has reported the AC power input is not good (usually a power loss). It is	
		meant to inform the Tapping Unit why the display unit is shutting off.	
DC good fail	Type 1	The power supply has reported the DC power outputs are not good (usually out of spec). This	
		discrete is meant to inform the Tapping Unit why the display unit is shutting off, and it also provides an alert that the display unit needs service.	
Motor fail	Type 1	The motor controller/motor has failed to deploy or stow the monitor. This is meant to alert the	
	''	flight attendants to check the unit to see if it needs to be manually stowed, or for the flight	
		attendants to instruct the passengers to view a different monitor rather than the failed unit. This	
	1	also provides an alert that the display unit needs service.	
Video CCA	Type 1	The video converter board has failed, primarily when it fails POST. This provides an alert that	
fail		the display unit needs service.	
Backlight fail	Type 2	Current drawn by Inverter module is lower than expected, which indicates one backlight has	
	ļ	failed, or the portion of the inverter used to drive the backlight is not working. If one backlight	
		has failed, the display unit continues to operate with a reduced brightness display rather than shut	
İ		itself down. The status stream is sent with the backlight fail BIT discrete reset to indicate the	
		fault condition. This provides an alert that the display unit needs service.	
(Reserved 1)	TBD	An extra discrete bit reserved for future use.	
Inverter Fail	Type	Current drawn by Inverter module is much lower than expected, which indicates both backlights	
		have failed, or the inverter is not working. In the current embodiment, the Inverter fail signal is	
		considered an equipment failure only during a power-on self test. If the inverter has a fault, the	
		display unit continues to operate with a blanked screen rather than shutting itself down. The	
		status stream is sent with the Inverter fail BIT discrete reset to indicate the fault condition. This	
		provides an alert that the display unit needs service.	
Capacitor low	Type 1	The charge is too low in the capacitor bank that is used for reserve power during the stow	
		process when a power loss occurs, indicating that at least one of the capacitors has failed in an	
		open circuit state. Since this power is needed to guarantee stowing the unit during a power	
		failure, the unit does not attempt to deploy if it detects a Capacitor low fault. Instead, the BIT	
		data stream is sent with this discrete bit set to show the fault condition and then the unit turns	
Loss of video	T 2	itself off, indicating that the unit needs service.	
fail	Type 2	The video converter board has not seen a video signal for 10 minutes. This does not mean that	
1411		the display unit needs service; rather, it is meant to inform the Tapping Unit why the 10.4"	
Deploy fail	Type 2	Retract is shutting off	
Deploy fair	Type 2	The motor controller/motor has completed the entire 3-try routine and has given up trying to	
		deploy. This is meant to alert the flight attendants to check to see if there is an obstruction in the	
		way of the monitor that needs to be moved. This does not mean that the display unit needs	
Thermal limit	Type 1	service; rather, it is meant to inform the Tapping Unit why the display unit is shutting off.  The power supply has reported that the sensor temperature has exceeded +85 degrees C, and the	
anvina iniit	1.5pc 1	10.4" and the display unit shutting down rather than failing due to overheating, and thus avoiding	
		a safety incident report against the unit. This provides an alert that the display unit needs	
		service.	
Thermal	Type 2	The power supply has reported that the sensor temperature has exceeded +60 degrees C. The	
stress	) F · =	10.4" Retract continues to operate rather than shut itself down, but the BIT data stream is sent	
·		with this discrete bit set to show the fault condition. The unit is operating but is hotter than	
		normal, indicating that the unit probably needs service.	
(Reserved 3)		An extra discrete bit reserved for future use.	
(Reserved 4)		An extra discrete bit reserved for future us.	
(Reserved 5)		An extra discrete bit reserved for future use.	
()			

Figure 7

And the fact of the fact that the first of the fact that the first that